



NAVAL AMMUNITION LOGISTICS CENTER

SLDCADA Architecture

SLDCADA CCB

21 February 2002



SLDCADA

Architecture

- ✦ **Systems Architecture**
- ▮ **Security Accreditation**
- ▮ **Performance Testing**
 - Web Version**
- ▮ **Smartcard Update**



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Architecture

✦ *Systems Architecture*

- Hardware

✦ *Sun Enterprise Servers*

- Web Application Servers*
- Database Servers*

- Software

- ✦ *Operating System (Solaris)*
- ✦ *Database Engine (Oracle 8i)*
- ✦ *Enterprise Management (Tivoli)*



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Architecture

- ✦ *Systems Architecture (cont'd)*
 - *Data Warehouses*
 - ✦ *2 Sites*
 - *DISA Mechanicsburg, Pa.*
 - *DISA San Diego, Ca.*
 - ✦ *2 Platform Sets\per Site*
 - ✦ *Network Back-up*
 - *DISA Sites*
 - *Yorktown Remote Network Operations Center (RNOC)*



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Architecture

- ▮ *Security Accreditation*
 - *Client/Server Version (Powerbuilder)*
 - ◆ *DITSCAP Signed*
 - *Web Version*
 - ◆ *IATO (Signed 8/27/2001)*
 - ◆ *DITSCAP - Performance testing continues*



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▮ Performance Testing (Web Version)

– Test Platforms

- ♦ RTE Systems (96 workstations set-up)
- ♦ Simulates 1-256 Users per System

– Multiple Tests

- ♦ Local Yorktown\Test Facility (Chicago, Il.)
- ♦ Mechanicsburg to Yorktown
- ♦ Mechanicsburg to San Diego
- ♦ Yorktown to San Diego



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SmartCard Update

– Working Prototype

- ♦ Developed late FY00
- ♦ Supports barcode, magnetic stripe reader, and SmartCard Technologies
- ♦ Provides Low Level routines to update SLDCADA screen fields, database



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- ♦ SmartCard Update (con't)
 - Next Step (FY02)
 - ♦ Met with DON CIO Office (Aug 2001)
 - Received CAC Developer Kit
 - DMDC Demographic API (interface documentation to access DoD Data elements on the CAC)
 - CAC Reader Specification
 - CAC Middleware Requirements
 - ♦ Update Working Prototype Card Access Routines to support DON Standards for Log-On, Email Encryption/Decryption, Electronic Signatures, Authentication, and data storage/retrieval functions.



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- ✦ *SmartCard Update (con't)*
 - *Next Step (FY02)*
 - ✦ *Finalize SLDCADA Requirements for CAC*
 - ✦ *Determine Requirement-based Design Decision on Card Centric vs. Web-Centric Deployment Strategy*
 - *Hybrid Card Architecture (HCA)*
 - *Static Data common to all (card-centric)*
 - *Application\Organizational Specific (Static and/or Dynamic) - Web-Centric*
 - *SLDCADA Architecture supports HCA*